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## IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:

van Ooij et al.

Paper No.:

Serial No.:

10/637,158

Group Art Unit: 1762

Filed:

August 8, 2003

Examiner:

For:

Silane Coatings for Bonding Rubber to Metal

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56 and 1.97-1.98, Applicants cite the references listed on the attached Form PTO-1449. As these references were made of record in the parent Application Serial No. 10/163,033, additional copies are not submitted herewith. However, the Examiner should advise the undersigned if copies of the cited references are required.

Since the present Statement is filed prior to first action by the Examiner, no certification or fee under 37 C.F.R. 1.97 is required. However, please charge any fees required, or credit any overpayment, to Deposit Account No. 04-1133.

Respectfully submitted.

Geoffrey L. Oberhaus

Reg. No. 42,955

Dinsmore & Shohl LLP 1900 Chemed Center 255 East Fifth Street

Cincinnati, Ohio 45202

(513) 977-8623

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**PTO FORM 4/92** Page 1 of 3 FORM PTO - 1449 ... ATTY DOCKET. 19789-13 DIV SERIAL NO. LIST OF PATENTS AND PUBLICATONS APPLICANT van Ooij, et al. 10/637,158 FOR APPLICANT'S INFORMATION FILING DATE August 8, 2003 **GROUP** DISCLOSURE STATEMENT FOR Silane Coatings f r Bonding 1762 Rubber to Metal UNITED STATES LETTERS PATENT Exr. SUB DOCUMENT NUMBER DATE NAME **CLASS** Init. **CLASS** FOREIGN PATENT DOCUMENTS SUB DOCUMENT NUMBER DATE **COUNTRY CLASS** CLASS 6 07/26/94 Canada 0 4 3 \$ 7 8 1 A2 07/03/91 **EPO** 0 5 8 3 3 6 6 A l 03/24/93 **EPO** 5 0 2 0 2 5 3 B1 0/19/94 **EPO** 3 4 4 3 9 2 6A1 06/12/86 Germany 53 3 0 7 6 02/02/78 Japan 56 1 6 4 4 7 5 12/11/81 Japan 5 58 2 0 3 6 11/19/83 Japan 2 60 8 8 6 3 0 10/21/85 Japan 60 8 1 2 5 6 05/09/85 Japan 60 2 3 0 10/21/85 Japan 7 8 3 01/14/87 Japan 5 62 4 0 Japan 03/13/87 3 7 9 63 4 3 07/12/88 Japan 63 9 7 2 6 6 04/27/88 Japan 63 9 7 2 7 6 04/27/88 Japan 5 7 7 3 3 05/19/93 Japan 6 8 4 7 9 07/05/94 Japan wo 7 98 3 0 3 5 07/16/98 **PCT** wo 99 2 0 6 8 2 04/29/99 **PCT** wo 99 2 0 7 0 5 04/29/99 **PCT** WO 99 6 7 4 4 4 29 Dec 1999 PCT wo 6 July 2000 OTHER ART (INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.) Buchwalter, L.P., et al. Adhesion of polyimides to ceramics: Effects of aminopropyltriethoxysilane and temperature and humidity exposure on adhesion, J. Adhesions Sci. Technol., Vol. 5, No. 4, pp. 333-343 (1991) Cruse, R. W., et al., Effect of Polysulfidic Silane Sulfur on Rolling Resistance, Rubber & Plastic News, pp. 14-17 (April 21, 1997)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and no considered. Include copy of this form with next communication to applicant.

**PTO FORM 4/92** Page 2 of 3 **FORM PTO - 1449** ATTY DOCKET. 19789-13 DIV SERIAL NO. LIST OF PATENTS AND PUBLICATONS APPLICANT van Ooij, et al. 10/637,158 FILING DATE August 8, 2003 FOR APPLICANT'S INFORMATION GROUP DISCLOSURE STATEMENT FOR Silane Coatings for Bonding 1762 Rubber to Metal UNITED STATES LETTERS PATENT SUB Exr. DOCUMENT NUMBER DATE **NAME CLASS CLASS** Init. FOREIGN PATENT DOCUMENTS **SUB** DOCUMENT NUMBER **DATE** COUNTRY **CLASS CLASS** OTHER ART (INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.) Hornstrom, S.E., et al., Paint Adhesion and Corrosion Performance of Chromium-Free Pretreatment of 55% Al-Zn-coated Steel, J. Adhesion Sci. Technol. Vol. 10, No. 9, pps. 883-904 (1996) Homstrom, S.E., et al., Characterization of Thin Films of Organofunctional and Non-Functional Silanes on 55A1-43, 4Zn-1.6Si Alloy Coated Steel, ECASIA 97, pp. 987-990 (1997) Luginsland, H. D., Reactivity of the Sulfur Functions of the Disulfane Silane TESPD and the Tetrasulfane Silane TESPT, presented at a meeting of the Rubber Division, American Chemical Society, Chicago, Illinois (April 13-16, 1999) Plueddemann, Edwin P., Silane primers for epoxy adhesives, J. Adhesion Sci. Technol., Vol. 2, No. 3, pp. 179-188 (1988) Plueddemann, Edwin P., Reminiscing on Silane Coupling Agents, J. Adhesion Sci. Technol. Vol. 5, No. 4, pp. 261-277 (1991) Plueddemann, Edwin P., et al. Adhesion Enhancing Additives for Silane Coupling Agents, 42nd Annual Conference, Composites Institute, The Society of the Plastics Industry, Inc., (February 2-6, 1987) Pu, Z., et al., Hydrolysis Kinetics and Stability of Bis (Triethoxysilyl) Ethane in Water-Ethanol Solution by FTIR Spectroscopy, Journal of Adhesion Science and Technology (1996) Sabata, A., et al., Trends toward a better understanding of the interface in painted metals, Trends in Corrosion Research, 1, pp. 181-193 Sabata, A., et al., The interphase in painted metals pretreated by functional silanes, J. Adhesion Sci. Technol., Vol. 7, No. 11, pp. 1153-1170 (1993)Sabata, A. Et al., TOFSIMS Studies of Cleaning Procedures and Silane Surface Treatments of Steels, Journal of Testing and Evaluation, JTRVA, Vol. 23, No. 2, pp. 119-125 (March 1995) van Ooij, W. J., et al. Characterization of Films of Organofunctional Silanes by ToF-SIMS, Surface and Interface Analysis, Vol. 20, pp.475-484 (1993) van Ooij, W. J., et al. Modifications of the Interface Between Paints and Stainless Steels by Means of an Interphase Crosslinked Organofunctional, Materials Research Society Symposium Proceedings, Vol. 304, pp. 155-160, (1993) van Ooij, W. J., et al. Novel Silane-Based Pretreatments of Metals to Replace Chromate and Phosphate Treatment, 2nd Annual Advanced Tecniques for Replacing Chromium: An Information Exchange, prepared by David S. Viszlay, Concurrent Technologies Corp. NDCEE, Seven Springs Mountain Resort, Champion, PA (November 7-8, 1995) pp. 287-310 van Ooij, W. J., et al. On the Use, Characterization and Performance of Silane Coupling Agents Between Organic Coatings and Metallic or Ceramic Substrates, American Institute of Physics, pp. 305-321 (1996) van Ooij, W. J., et al., Silane-Based Pretreatments of A1 and its Alloys as Chromate Alternatives, Aluminium Surface Science Technology, "Elzenveld" Antwerp-Belgium, (May 12-15, 1997) van Ooij, W. J. et al., Silane Coupling Agent Treatments of Metals for Corrosion Protection, Presented at the Fourth Interantional Forum and business Development Conference on Surface Modification, Couplants and Adhesion Promoters, Adhesion Coupling Agent Technology 97, Boston, MA (September 22-24, 1997) van Ooij, W. J., et al., Pretreatment of Metals for Painting by Organofunctional Silanes, Extended Abstractof Paper Presented at 1997 International Symposium on Advances in Corrosion Protection by Organic Coatings, Noda, Japan (October 29-31, 1997)

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